

SYSTEM AND METHOD FOR BUILT-IN TESTING OF A GPS RECEIVER

ABSTRACT OF THE DISCLOSURE

5 Built-in test equipment (BITE) incorporated in a GPS receiver for providing a loop forward test. The loop forward test capability may be combined with a loop backward capability to provide a comprehensive built-in test (BIT) capability for the signal path in a GPS receiver. A code
10 generator generates deterministic test code signals such as C/A code, P code and pseudo M code that are used to modulate one or more radio frequency (RF) carriers to produce RF test signals. The RF test signals are injected into the GPS receiver's RF input. The RF test signal signals are then
15 down-converted and demodulated through an operational signal path of the GPS receiver. The processed test signals may then be compared to the initial test data. A loop backward BITE may also be used to sample the positioning data output by the receiver.

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